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NOTICE OF ALLOWANCE AND FEE(S) DUE

48980

7590

09/20/2010

YOUNG BASILE 3001 WEST BIG BEAVER ROAD SUITE 624 TROY, MI 48084 EXAMINER
BITAR, NANCY
ART UNIT PAPER NUMBER

2624 DATE MAILED: 09/20/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575.216	04/10/2006	Hidekazu Nishiuchi	NNA-110-B	6925

TITLE OF INVENTION: APPARATUS AND METHOD FOR DETECTING OBJECTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/20/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (orders and notification of a) specifying a new cor	f maintenance fees respondence address	will be 1 s; and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	F	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
SUITE 624	G BEAVER ROAD	I S ac tr	hereby certify that that that the Postal Service Idressed to the Ma	his Fee(s with suff il Stop l	of Mailing or Transum by Transmittal is being ficient postage for first ISSUE FEE address at 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile	
TROY, MI 4808	34						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR .	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/575,216 TITLE OF INVENTION	04/10/2006 J: APPARATUS AND N	METHOD FOR DETECT	Hidekazu Nishiuchi ING OBJECTS			NNA-110-B	6925
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/20/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	\neg			
BITAR,	NANCY	2624	382-100000	_			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on the	tively, Igle firm (having as r agent) and the nar ttorneys or agents. If one printed. Type) patent. If an assign assignment.	a member nes of up f no name	er a 2 o to e is 3 entified below, the do	cument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🗖 C	Corporatio	on or other private gro	up entity Government
Advance Order -	No small entity discount # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	i tus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no l	ongar alaiming SMA	II ENT	CITY status See 37 CE	P 1.27(α)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req		ed from anyone other tha				e assignee or other party in
Authorized Signature				Date			
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The information of U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain of 1.14. This collection is y depending upon the interest of the Chief Information Off COMPLETED FORMS	or retain a benefit by estimated to take 12 lividual case. Any c icer, U.S. Patent and TO THIS ADDRES	the publi minutes comments I Tradem SS. SENI	ic which is to file (and to complete, including s on the amount of tin tark Office, U.S. Depa O TO: Commissioner for	by the USPTO to process) g gathering, preparing, and ne you require to complete truent of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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3001 WEST BIG I	BEAVER ROAD	ART UNIT	PAPER NUMBER		
SUITE 624 TROY, MI 48084			2624 DATE MAILED: 09/20/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 129 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 129 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/575,216	NISHIUCHI, HIDEKAZU			
Notice of Allowability	Examiner	Art Unit			
	NANCY BITAR	2624			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com GHTS. This application is	with the correspondence address in this application. If not included munication will be mailed in due course.			
					
2. ☑ The allowed claim(s) is/are <u>1-19</u> .					
B. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of 6. ☐ Interview Paper N 7. ☐ Examine 8. ☑ Examine 9. ☐ Other	Informal Patent Application Summary (PTO-413), o./Mail Date 's Amendment/Comment 's Statement of Reasons for Allowance			
/Wes Tucker/ Primary Examiner, Art Unit 2624	/Nancy Bitar Examiner, Art				
Timory Examinor, Art Offic 2027	Laminer, Ar	OTHE LULT			

Application/Control Number: 10/575,216 Page 2

Art Unit: 2624

DETAILED ACTION

Response to Arguments

1. Applicant's response to the last Office Action, filed 6/10/2010, has been entered and made of record.

- 2. Applicant has amended claims 1, 7,11,13,14, 18 and 19. Claims 1-19 are currently pending.
- 3. Applicant's arguments, in the amendment filed 8/4/2010, with respect to the rejections of claims 1-19 under 35 U.S.C103 (a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.
- 4. After reviewing the remarks made by the Applicant in response to the non-final office action the Examiner finds the remarks to be persuasive. The combination of cited references Nagaoka et al (JP 2002-005656) and Watanabe et al (US 7,620,237, do not teach or suggest the features of claim or the newly added features. No other found prior art of record teaches or fairly suggests the combination of claimed elements .None teaches:
- "a controller operatively coupled to the memory and configured to determine from the first image taken by the single camera at the first time the position of the object and a first pitch angle of the vehicle relative to a y-coordinate in a horizontal direction is zero, and to determine from the second image taken by the same single camera whether a second pitch angle of the vehicle relative to the y-coordinate in the horizontal direction at the second time is zero, and to determine the position of the object in the second image based on the position of the object in tile first image if the second pitch angle is not zero".

The Examiner finds no reason or motivation to combine the above references in an obviousness rejection thus placing the application in condition for allowance.

Any comments considered necessary by applicant must be submitted on later than the payment of the issue fee and to avoid processing delays should preferably accompany the issue fee. Such submissions should be clearly labeled, comments on statement of reasons for allowance.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NANCY BITAR whose telephone number is (571)270-1041. The examiner can normally be reached on Mon-Fri (7:30a.m. to 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on 571-272-7415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/575,216

Page 4

Art Unit: 2624

/Nancy Bitar/ Examiner, Art Unit 2624

/Wes Tucker/ Primary Examiner, Art Unit 2624